

EUROPEAN PATENT OFFICE

Patent Abstracts of Japan

PUBLICATION NUMBER : 01188511
PUBLICATION DATE : 27-07-89

APPLICATION DATE : 22-01-88
APPLICATION NUMBER : 63012375

APPLICANT : ASAHI OPTICAL CO LTD;

INVENTOR : KOKETSU MASAHIRO;

INT.CL. : C08G 18/08 B29C 39/02 C08G 18/08 G02B 1/04 // B29K 75:00 B29K105:32 B29L 11:00

TITLE : PRODUCTION OF RESIN HAVING HIGH REFRACTIVE INDEX

ABSTRACT : PURPOSE: To obtain the subject resin having high refractive index and excellent processability and useful as a lens or optical element, by the cast-polymerization of a diisocyanate and a mercaptoalkyl ester of a polyhydric alcohol in the presence of an initiator and a specific internal mold release agent.

CONSTITUTION: The objective resin is produced by the cast polymerization of a diisocyanate (preferably m-xylylene diisocyanate) and a mercaptoalkyl ester of a ≥ 3 -hydric polyol [preferably pentaerythritol tetrakis(3- mercaptopropionate)] in the presence of an initiator. The cast polymerization is carried out by adding preferably 10-5,000ppm of an internal mold release agent selected from a mineral oil mold release agent, a phosphoric acid ester mold release agent, a fatty acid alkyl ester and a condensed mold release agent produced by combining an organic acid glyceride and a synthetic resin.

COPYRIGHT: (C) JPO